

# Work Order ID 77465

**\*77465\***

Page 1

December-08-11 7:59:41 AM

Item ID: D350-607-043A

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011 Start Qty: 1.00

**\*1\***

Cust Item ID:

Required Date: 20/12/2011 Req'd Qty: 1.00

**\*1\***

Customer:

Reference:

Approvals: Process Plan: M.L.S Date: 11/12/08 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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IIN-D350-607-1	A
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100

0.00

**\*100\***

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPPD350-607-043A CHG001

8/11/12/20

8/11/12/20

110

Pick Kit

0.00

**\*110\***

Packaging

Memo

0.00

Packaging

8/11-12-19

120

Small Fab

0.00

**\*120\***

Small Fab

Memo

0.00

Small Fab

Assemble as per Dwg D350-607

Seal Support Gusset with Sikaflex -291

Batch: M117508

Exp Date: 12/09/13

8/11/12/20 (V)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**\*77465\***

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**\*N900040100\***

Setup Start \*NS1\*

Stop \*NS2\*

**Start Date:** 08/12/2011    **Start Qty:** 1.00    **\*1\***

**Cust Item ID:**

**Required Date:** 20/12/2011      **Req'd Qty:** 1.00      **\* 1 \***

**Customer:**

**Reference:**

Run Start \*NR1\*

**Approvals:** \_\_\_\_\_ **Process Plan:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Tooling:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Stop \*NR2\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

[illegible]

# Dart Aerospace Ltd

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
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Item ID: D350-607-043A

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**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Stop **\*NS2\***

Start Date: 08/12/2011 Start Qty: 1.00

**\*1\***

Cust Item ID:

Required Date: 20/12/2011 Req'd Qty: 1.00

**\*1\***

Customer:

Reference:

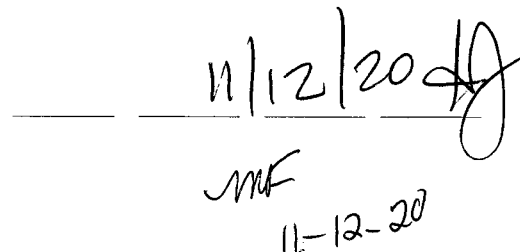
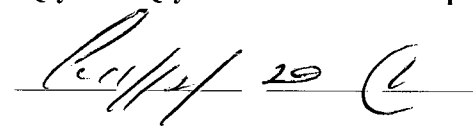
Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	Packaging	0.00							
<b>*160*</b>									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D350-607-043A Location: _____								
170	QC21- Final Inspection - Work Order Release	0.00							
<b>*170*</b>									
QC	Memo	0.00							
Quality Control									



# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP RevB: as per dwg revC DD 10.01.18 verified by:EC IPP rev:C as per ecn10-545 DD 10.04.19 verified by:EC  
IPP Rev:D 10.10.18 remove D350-607-143 and added individual parts of D350-607-143 in DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3953-7 <b>*D3953-7*</b> Spring Spacer		Manufactured	No				Each	39.0000		1			
									**				
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST096				39					
				65053				3					
				76295				22					
				76658				14					
AN310-4 <b>*AN310-4*</b> NUT		Purchased	No			110	Each	40.0000	2	2			
									**				
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST344				40					
				118983				3					
				119328				22					
				119799				15					
AN3C11A <b>*AN3C11A*</b> BOLT		Purchased	No			110	Each	74.0000	2	2			
									**				
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST351				74					
				118116				4					
				118838				20					
				119798				50					

10

B741168 sp 1x

m 18112. 8x  
2x

sp 11-12-19

2x

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C15A	Purchased	No	110	Each	13.0000	2	2
<b>*AN3C15A*</b>						**	<u>m119973 sp</u>
Bolt							

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
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ST352	13	
117792	13	

D2728-3	Manufactured	No	110	Each	0.0000	2	2
<b>*D2728-3*</b>						**	<u>m115050. sp</u>
Dart Logo label							

D3953-11	Manufactured	No	110	Each	7.0000	1	1
<b>*D3953-11*</b>						**	<u>sp.</u>
Gas Spring Spacer							

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST096	7	
71268	7	

D3953-15	Manufactured	No	110	Each	11.0000	1	1
<b>*D3953-15*</b>						**	<u>sp</u>
Gas Spring Bracket							

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST096	11	
71269	11	

D3953-17	Manufactured	No	110	Each	31.0000	1	1
<b>*D3953-17*</b>						**	<u>sp 11-12-19.</u>
Gas Spring Spacer							

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST096	31	
73474	2	
76294	29	

# Dart Aerospace Ltd

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

D3953-3 Manufactured No

110 Each 7.0000 1 1

**\*D3953-3\***

Gas Spring Stud, Lid

\*\*

B71875 SP.

Location

Loc Qty

Loc Code

ST096

7

74703

7

D3953-5 Manufactured No

110 Each 4.0000 1 1

**\*D3953-5\***

Gas Spring Stud, Base

\*\*

B77506 SP.  
1x.

Location

Loc Qty

Loc Code

ST096

4

71270

4

D3953-9 Manufactured No

110 Each 28.0000 2 2

**\*D3953-9\***

Gas Spring Washer

\*\*

SP.

Location

Loc Qty

Loc Code

ST096

28

69025

2

76296

22

76654

4

D3969-1 Manufactured No

110 Each 20.0000 1 1

**\*D3969-1\***

Spring (Basket Lid)

\*\*

SP 11-12-19.  
B72364.

Location

Loc Qty

Loc Code

ST272

20

73523

20

# Dart Aerospace Ltd

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

MS21043-3

Purchased

No

110

Each

790.0000

4

4

**\*MS21043-3\***

\*\*

SP

Nut

Location

Loc Qty

Loc Code

FG

72

103691

72

ST301

718

118077

1

118614

449

118686

38

119758

230

4X

MS24665-2-12

Purchased

No

110

Each

160.0000

2

2

**\*MS24665-2-12\***

\*\*

SP

COTTER PIN

Location

Loc Qty

Loc Code

ST309

160

118078

160

2X

NAS1149C0332R

Purchased

No

110

Each

5,374.000

4

4

**\*NAS1149C0332R\***

\*\*

SP 11-12-19.

Washer

Location

Loc Qty

Loc Code

ST297

5374

118354

717

119124

24

119736

4633

4X

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 77465

**\*77465\***

Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0432R

Purchased

No

110

Each

4,320.000

2

2

**\*NAS1149C0432R\***

Washer

\*\*

SP -

Location

Loc Qty

Loc Code

ST297

4320

117291

3320

119124

1000

2x

D350-607-241

CHG 001

Manufactured

No

140

Each

4.0000

1

1

**\*D350-607-241\***

Basket Clamp Assembly

\*\*

75268

ED

Location

Loc Qty

Loc Code

FG022

4

75267

1

76637

3

D2022-101

Manufactured

No

110

Each

71.0000

5

5

**\*D2022-101\***

Spacer

\*\*

SP

Location

Loc Qty

Loc Code

ST504

71

71840

21

73307

50

4x

D2221

Manufactured

No

110

Each

0.0000

1

1

**\*D2221\***

350 Basket Base

D2258-200

Manufactured

No

110

Each

18.0000

1

1

**\*D2258-200\***

Placard 200lb

\*\*

SP 11-12-19

Location

Loc Qty

Loc Code

ST505

18

71180

9

76656

9

1x

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

\*D2530

Manufactured No

110 Each 4.0000

1 1

**\*D2530\***

Handle Weldment

\*\*

B 77030 1x Sp.

Location

Loc Qty

Loc Code

ST506

4

74600

4

D2535

Manufactured No

110 Each 38.0000

2 2

**\*D2535\***

Spring

\*\*

Sp

Location

Loc Qty

Loc Code

ST504

38

71117

38

D2537

Manufactured No

110 Each 46.0000

2 2

**\*D2537\***

Bushing

\*\*

Sp

Location

Loc Qty

Loc Code

ST504

46

73344

15

76088

31

D2931

Manufactured No

110 Each 546.0000

2 2

**\*D2931\***

Bumper

\*\*

Sp 11-12-19

Location

Loc Qty

Loc Code

ST504

546

46064

546

D2989-041

Manufactured No

110 Each 0.0000

1 1

**\*D2989-041\***

Basket Lid Assembly

\*\*

B 77469 (1x)

Sp 11/12/20

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
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Parent Item: D350-607-043A

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Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

D2989-043

Manufactured No

110

Each

0.0000

1

\*D2989-043\*

Basket Lid Assembly

AN3-16A

Purchased No

110

Each

129.0000

2

\*AN3-16A\*

Bolt

Location

Loc Qty

Loc Code

ST352

129

117441

49

118628

80

AN4-13A

Purchased No

110

Each

978.0000

2

\*AN4-13A\*

Bolt

Location

Loc Qty

Loc Code

ST357

978

118078

17

118838

361

119449

500

119798

100

AN4-22A

Purchased No

110

Each

208.0000

5

\*AN4-22A\*

Bolt

Location

Loc Qty

Loc Code

ST359

208

116419

49

117313

59

118628

100

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Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

AN5-17A Purchased No

110 Each 120.0000 4 4

**\*AN5-17A\***

Bolt

\*\*

SP

## Location

## Loc Qty

## Loc Code

FP001

50

119438

50

ST338

70

117872

42

119449

28

MS20600-AD4W3 Purchased No

110 Each 1,193.000 2 2

**\*MS20600-AD4W3\***

Cherry Rivets

\*\*

SP

## Location

## Loc Qty

## Loc Code

GA

868

118626

868

ST321

192

111636

36

117505

121

117601

35

WA018

133

107939

133

AN960JD416 NAS1149D0463J Purchased No

110 Each 0.0000 14 14

**\*AN960JD416\***

Washer

\*\*

m119075 SP

AN960JD516 NAS1149D0563J Purchased No

110 Each 0.0000 4 4

**\*AN960JD516\***

Washer

\*\*

m118206 SP

AN960JD8 NAS1149DN832 J Purchased No

110 Each 0.0000 2 2

**\*AN960JD8\***

Washer

\*\*

m118614 SP  
11-12-19

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**\*77465\***

Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

NAS1515H4

Purchased

No

110

Each

167.0000

2

2

**\*NAS1515H4\***

Washer

\*\*

X. SP

Location

Loc Qty

Loc Code

ST277

167

116169

3

117460

13

117735

3

118078

48

118612

100

2

MS21042L3

Purchased

No

110

Each

7,439.000

2

2

**\*MS21042L3\***

Nut

\*\*

SP 11-12-19

Location

Loc Qty

Loc Code

ST300

80

117441

16

117885

35

118451

5

118927

24

ST516

5994

119017

5994

ST518

1365

119075

1365

2A

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

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Page 10

Work Order ID: 77465

**\*77465\***

Parent Item: D350-607-043A

**\*D350-607-043A\***

Parent Item Name: Heli-Utility-Basket (Automatic Lid Opener)

Start Date: 08/12/2011

Required Date: 20/12/2011

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

9,980.000

7

7

**\*MS21042I 4\***

Nut

\*\*

SP.

Location

Loc Qty

Loc Code

ST300

526

117441

51

117601

342

118451

133

ST516

4454

119017

4454

ST518

5000

119075

5000

7x

MS21042L5

Purchased

No

110

Each

2,188.000

4

4

**\*MS21042I 5\***

Nut

\*\*

SP 11-12-19.

Location

Loc Qty

Loc Code

ST300

688

116105

5

116548

43

117611

52

118179

496

118910

92

ST518

1500

119109

1500

4x

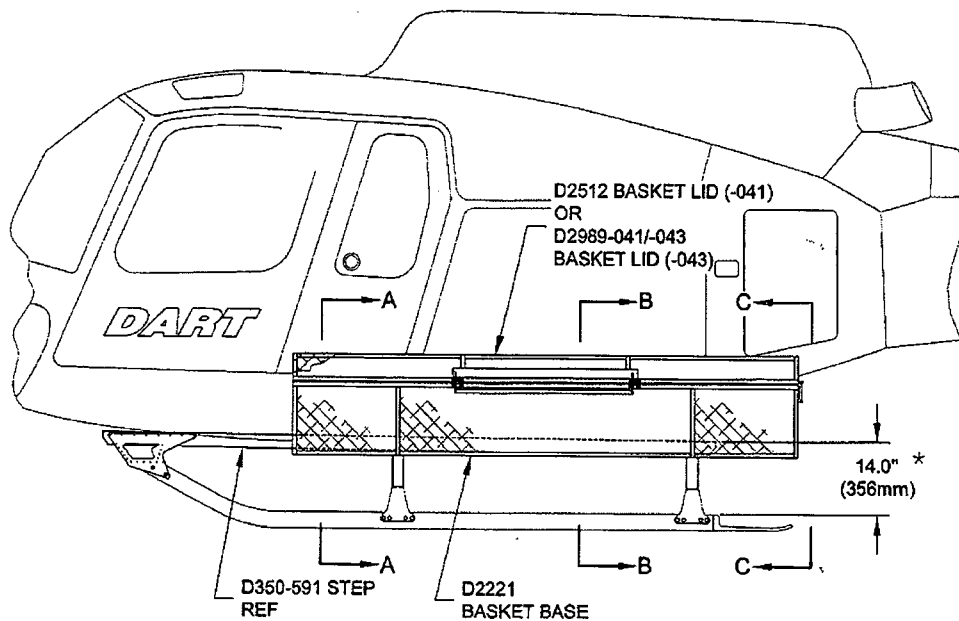
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

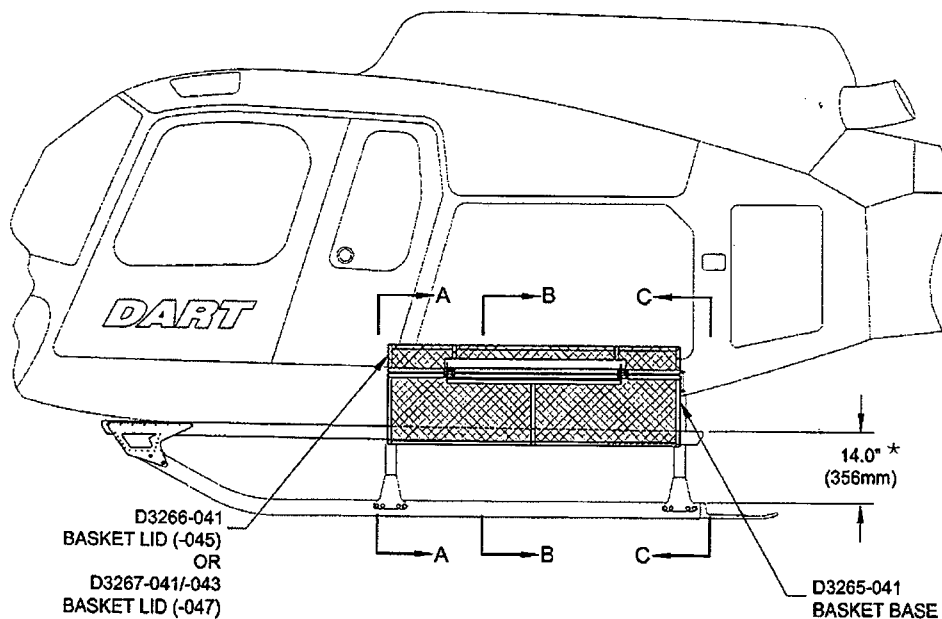
**NOTE:** Date & initial all entries



**Figure 1a – D350-607-041 Heli-Utility-Basket™ Installation, or  
D350-607-043 Heli-Utility-Basket™ Installation**  
(LH Installation Shown, RH Opposite)

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WORK ORDER  
NO. 77465  
H.L.J.

11/12/08



**Figure 2a – D350-607-045 Heli-Utility-Basket™ Installation, or  
D350-607-047 Heli-Utility-Basket™ Installation**  
(LH Installation Shown, RH Opposite)

\* Proper position for step installation on high gear only

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Revision: **A**

Date: 10.03.10

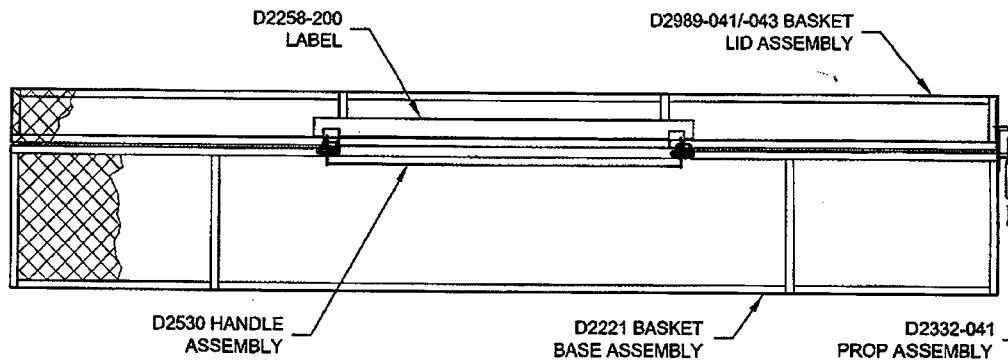
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

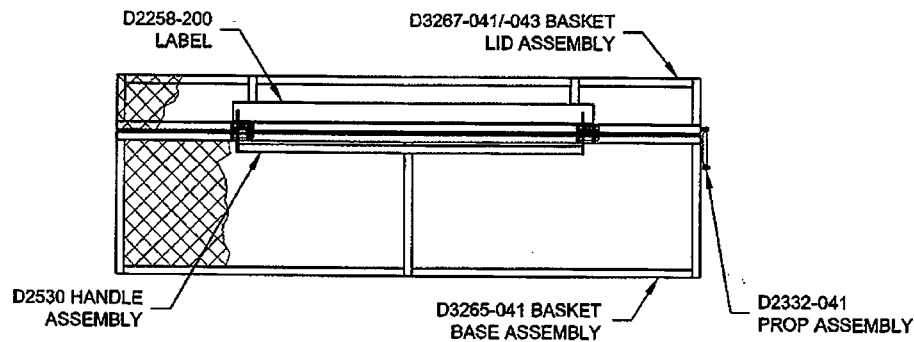
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

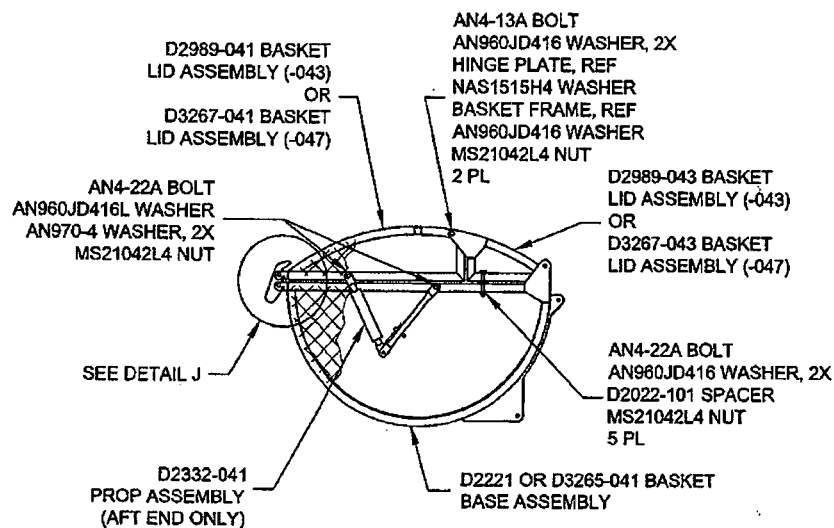
**NOTE:** Date & initial all entries



**D350-607-043 HELI-UTILITY- BASKET™**



**D350-607-047 HELI-UTILITY- BASKET™**



**VIEW C-C**  
**PROP ARM DETAIL**

**Figure 6- Basket Replacement Parts**

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Revision: **A**

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**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

**Part No:** \_\_\_\_\_ **PAR #:** \_\_\_\_\_ **Fault Category:** \_\_\_\_\_ **NCR:** Yes No **DQA:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Resolution:** \_\_\_\_\_ **Disposition:** \_\_\_\_\_ **QA: N/C Closed:** \_\_\_\_\_ **Date:** \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# DART SERVICE INSTRUCTION

TO AMEND DRAWING D350-607 REV. F OR SUBSEQUENT APPROVED REVISION

REF CANADIAN STC: SH94-14

FAA STC: SR00213NY

EASA STC: EASA.IM.R.S.01405

THE PURPOSE OF THIS DART SERVICE INSTRUCTION (DSI), IS TO PROVIDE OPERATORS OF AS350 / 355 ROTORCRAFT EQUIPPED WITH DART D350-607-041 HELI UTILITY BASKETS WITH AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 2 GAS SPRINGS.

FOR OPERATORS EQUIPPED WITH D350-607-043/-045/-047 HELI UTILITY BASKETS THIS DSI WILL PROVIDE AN UPGRADE KIT TO REPLACE THE EXISTING LID PROP ARM WITH 1 GAS SPRING.

ITEM No.	QTY -141	QTY -143	QTY -145	PART NUMBER	DESCRIPTION
1	X			D350-607-141	AUTOMATIC LID OPENER INSTL (FOR USE ON -041 BASKET*)
2		X		D350-607-143	AUTOMATIC LID OPENER INSTL (FOR USE ON -043/-047 BASKET*)
3			X	D350-607-145	AUTOMATIC LID OPENER INSTL (FOR USE ON -045 BASKET*)
4	2		1	D3953-1	GAS SPRING BRACKET
5	2	1	1	D3953-3	GAS SPRING STUD (LID)
6	2	1	1	D3953-5	GAS SPRING STUD (BASE)
7	2	1	1	D3953-7	GAS SPRING SPACER
8	4	2	2	D3953-9	GAS SPRING WASHER
9	2	1	1	D3953-11	GAS SPRING SPACER
10	2		1	D3953-13	GAS SPRING SPACER
11		1		D3953-15	GAS SPRING BRACKET
12		1		D3953-17	GAS SPRING SPACER
13	2	1	1	D3969-1	GAS SPRING
14	4	2	2	AN3C11A	BOLT
15		2		AN3C15A	BOLT
18	4		2	AN3C16A	BOLT
19	4	2	2	AN310-4	CASTELLATED NUT
20	8	4	4	MS21043-3	NUT
21	4	2	2	MS24665-212	COTTER PIN
22	8	4	4	NAS1149C0332R	WASHER (OR AN960C10L)
23	4	2	2	NAS1149C0432R	WASHER (OR AN960C416L)

**\*NOTE:** FOR CUSTOMERS WISHING TO ORDER NEW BASKETS WITH THE LID OPENER PRE-INSTALLED USE THE FOLLOWING NUMBERS:

D350-607-041 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-041A

D350-607-043 BASKET WITH AUTOMATIC LID OPENER INSTALLED= D350-607-043A

D350-607-045 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-045A

D350-607-047 BASKET WITH AUTOMATIC LID OPENER INSTALLED = D350-607-047A

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01
<b>APPROVED</b> BY: <u>D. SHEPHERD (DE # 02)</u>
DATE: <u>09.11.11</u> CERT. NO.: <u>SH94-14</u> ISSUE NO.: <u>4</u>

C	SHEET 1 PL, -143 INSTL, ITEM 6 QTY WAS 2, ITEM 7 WAS 0.	AJS	09.11.11
B	SHT 1 P/L ITEM 22 WAS NAS1149C0332 ITEM 23 WAS NAS1149C0432H. ALL OTHER SHEETS UPDATED ACCORDINGLY. (REASON: DRAFTING ERROR) INSTALLATIONS RENAMED.	AJS	09.11.06
A	NEW ISSUE	AJS	09.09.15
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. C
MFG. APPR.	N/A	DSI 9473	SHEET 1 OF 8
APPROVED		TITLE	SCALE
DE APPR.		AUTOMATIC LID OPENER INSTL	NTS
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FOR D350-607-041 BASKETS, REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

### **D350-607-141 AUTOMATIC LID OPENER INSTALLATION**

**NOTE:** ONCE THIS MODIFICATION IS COMPLETE YOU WILL NOT BE ABLE TO RE-INSTALL THE D2332-041 PROP ARM.

- 1) REMOVE THE D2332-041 PROP ARM.
- 2) GRIND FLUSH THE D3227-3 SPACER BUSHING ON BOTH ENDS OF THE BASKET AS SHOWN IN FIGURE 1 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
- 3) LOCATE THE D3953-1 GAS SPRING BRACKET AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL A. INSTALL THE D3953-1 GAS SPRING BRACKET & D3953-13 GAS SPRING SPACER USING 2X AN3C16A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW E-E.
- 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL B. FASTEN D3953-5 IAW VIEW F-F USING 2X AN3C11A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT.
- 5) INSTALL 1X D3953-11 GAS SPRING SPACER ONTO THE D3953-5 STUD AS SHOWN IN VIEW F-F. INSTALL THE LARGE END OF THE D3969-1 GAS SPRING SPRING ONTO THE D3953-5 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW F-F. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
- 6) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-1 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING AS SHOWN IN VEW E-E. RAISE THE BASKET LID AND INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW E-E. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.

**NOTE:** THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A  $\frac{9}{16}$  OPEN END SPANNER / WRENCH.

**NOTE:** WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.




- 7) REPEAT STEPS 2 THROUGH 6 AT THE OTHER END OF THE BASKET.
- 8) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRINGS SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 09.11.11  
CERT. NO.: SH94-14  
ISSUE NO.: 4

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CHECKED		DRAWING NO.	REV. C
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FOR D350-607-043/-047 BASKETS REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

### **D350-607-143 AUTOMATIC LID OPENER INSTALLATION**

**NOTE:** THIS KIT MAY BE INSTALLED AT EITHER END OF THE BASKET. HOWEVER, THE PROP ARM MUST BE REMOVED IN EITHER CASE AS IT WILL INTERFERE WITH THE FUNCTION OF THE GAS SPRING.

- 1) REMOVE THE D2332-041 PROP ARM.
- 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON THE END OF THE BASKET WHERE THE LID OPENER IS BE INSTALLED AS SHOWN IN FIGURE 2 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
- 3) LOCATE THE D3953-15 GAS SPRING BRACKET AS SHOWN IN FIGURE 2. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL C. INSTALL THE D3953-15 GAS SPRING BRACKET & D3953-17 GAS SPRING SPACER USING 2X AN3C15A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW G-G.
- 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 2. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL D. INSTALL 2X AN3C11A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW H-H. INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW H-H. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
- 5) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-15 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING STUD AS SHOWN IN VIEW G-G. RAISE THE BASKET LID AND INSTALL THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW G-G. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.

**NOTE:** THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A  $\frac{9}{16}$  OPEN END SPANNER / WRENCH.

**NOTE:** WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.




- 6) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRING SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPPERD (DE # 02)

DATE: 09.11.11  
CERT. NO.: SH94-14  
ISSUE NO.: 4

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DE APPR.		AUTOMATIC LID OPENER INSTL	NTS
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FOR D350-607-045 BASKETS REPLACE THE EXISTING D2332-041 PROP ARM ASSEMBLY AS FOLLOWS:

### **D350-607-145 AUTOMATIC LID OPENER INSTALLATION**

**NOTE:** THIS KIT MAY BE INSTALLED AT EITHER END OF THE BASKET. HOWEVER, THE PROP ARM MUST BE REMOVED IN EITHER CASE AS IT WILL INTERFERE WITH THE FUNCTION OF THE GAS SPRING.

- 1) REMOVE THE D2332-041 PROP ARM.
- 2) GRIND FLUSH THE D2327-3 SPACER BUSHING ON THE END OF THE BASKET WHERE THE LID OPENER IS BE INSTALLED AS SHOWN IN FIGURE 1 (IT IS PERMISSIBLE TO GRIND ALL 4 SPACERS FLUSH). TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4.
- 3) LOCATE THE D3953-1 GAS SPRING BRACKET AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET LID SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL A. INSTALL THE D3953-1 GAS SPRING BRACKET & D3953-13 GAS SPRING SPACER USING 2X AN3C16A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT AS SHOWN IN VIEW E-E.
- 4) LOCATE THE D3953-5 GAS SPRING STUD AS SHOWN IN FIGURE 1. TRIM STEEL MESH LOCALLY AS REQUIRED. TOUCH UP PAINT PER ICA-D350-607 REV. 0 SECTION 5.1 ITEM 4. TRANSFER MARK AND DRILL 2X Ø0.194 HOLES THRU THE BASKET BASE SQUARE TUBE STRUCTURE AS SHOWN IN DETAIL B. FASTEN D3953-5 IAW VIEW F-F USING 2X AN3C11A BOLT, 2X NAS1149C0332R WASHER & 2X MS21043-3 NUT.
- 5) INSTALL 1X D3953-11 GAS SPRING SPACER ONTO THE D3953-5 STUD AS SHOWN IN VIEW F-F. INSTALL THE LARGE END OF THE D3969-1 GAS SPRING SPRING ONTO THE D3953-5 GAS SPRING STUD AND FASTEN IN PLACE USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW F-F. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.
- 6) INSERT THE D3953-3 GAS SPRING STUD INTO THE D3953-1 GAS SPRING BRACKET & INSERT THE D3953-7 GAS SPRING SPACER ONTO THE D3953-3 GAS SPRING AS SHOWN IN VIEW E-E. RAISE THE BASKET LID AND INSTALL THE ROD END OF THE D3969-1 GAS SPRING ONTO THE D3953-3 GAS SPRING STUD USING 1X D3953-9 GAS SPRING WASHER, 1X NAS1149C0432R WASHER, 1X AN310-4 CASTELATTED NUT & 1X MS24665-212 COTTER PIN AS SHOWN IN VIEW E-E. INSTALL COTTER PIN PER MS33540 OR AC43.13 CHAPTER 7-127.

**NOTE:** THE D3953-3 GAS SPRING STUD CAN BE HELD IN PLACE WITH A  $\frac{9}{16}$  OPEN END SPANNER / WRENCH.

**NOTE:** WITH THE LID IN THE CLOSED POSITION THE GAS SPRING SHOULD NOT BE FULLY COMPRESSED.




- 7) TEST THE INSTALLATION. IF INSTALLED PROPERLY THE GAS SPRING SHOULD ASSIST THE BASKET USER IN BOTH OPENING AND CLOSING THE BASKET LID.

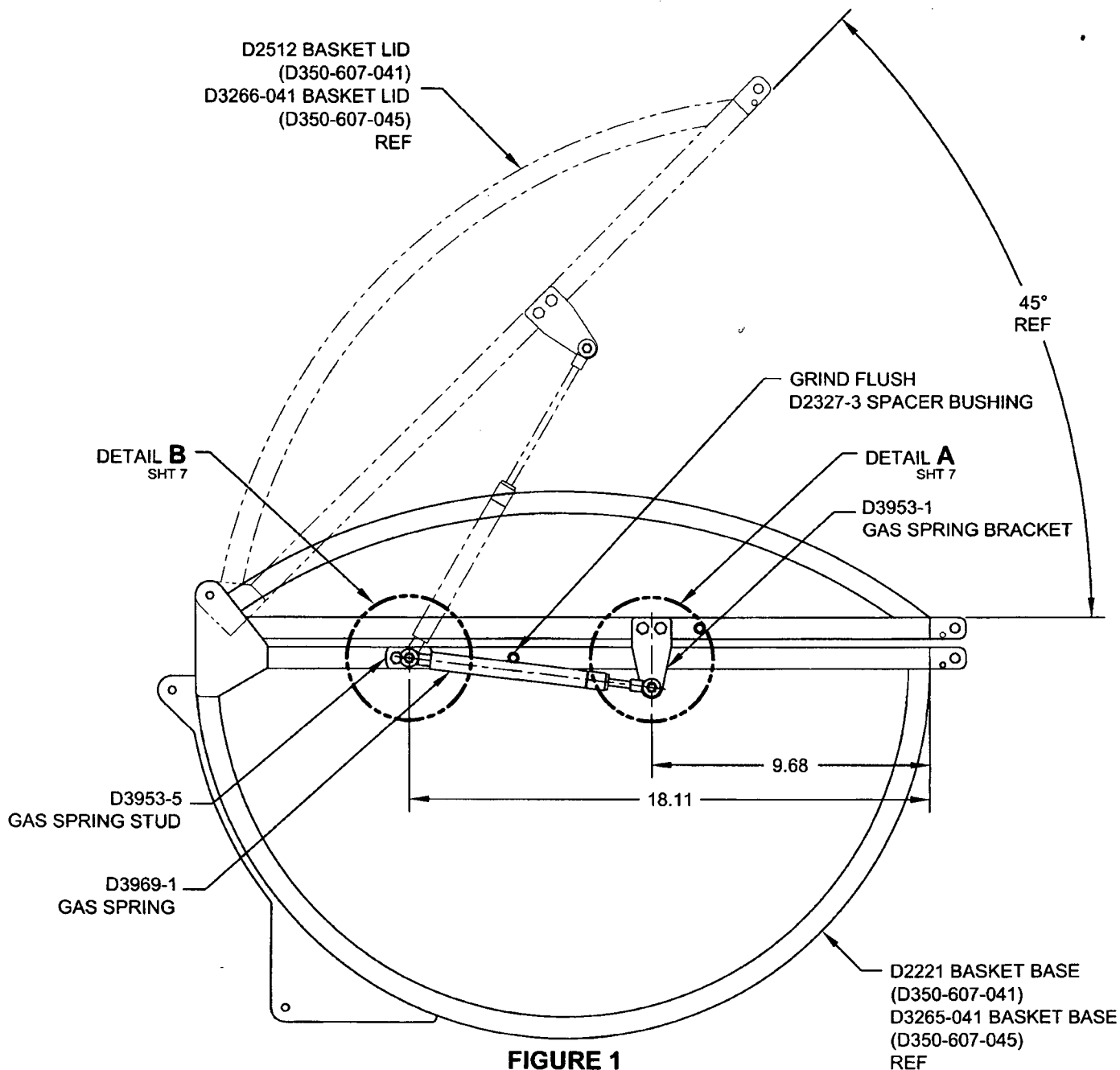
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BRANCH  
DAO # 01-O-01

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BY:   
D. SHEPHERD (DE # 02)

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**FIGURE 1**

**D350-607-141 AUTOMATIC LID OPENER INSTALLATION**  
(BOTH ENDS)

**D350-607-145 AUTOMATIC LID OPENER INSTALLATION**  
(1 END ONLY)

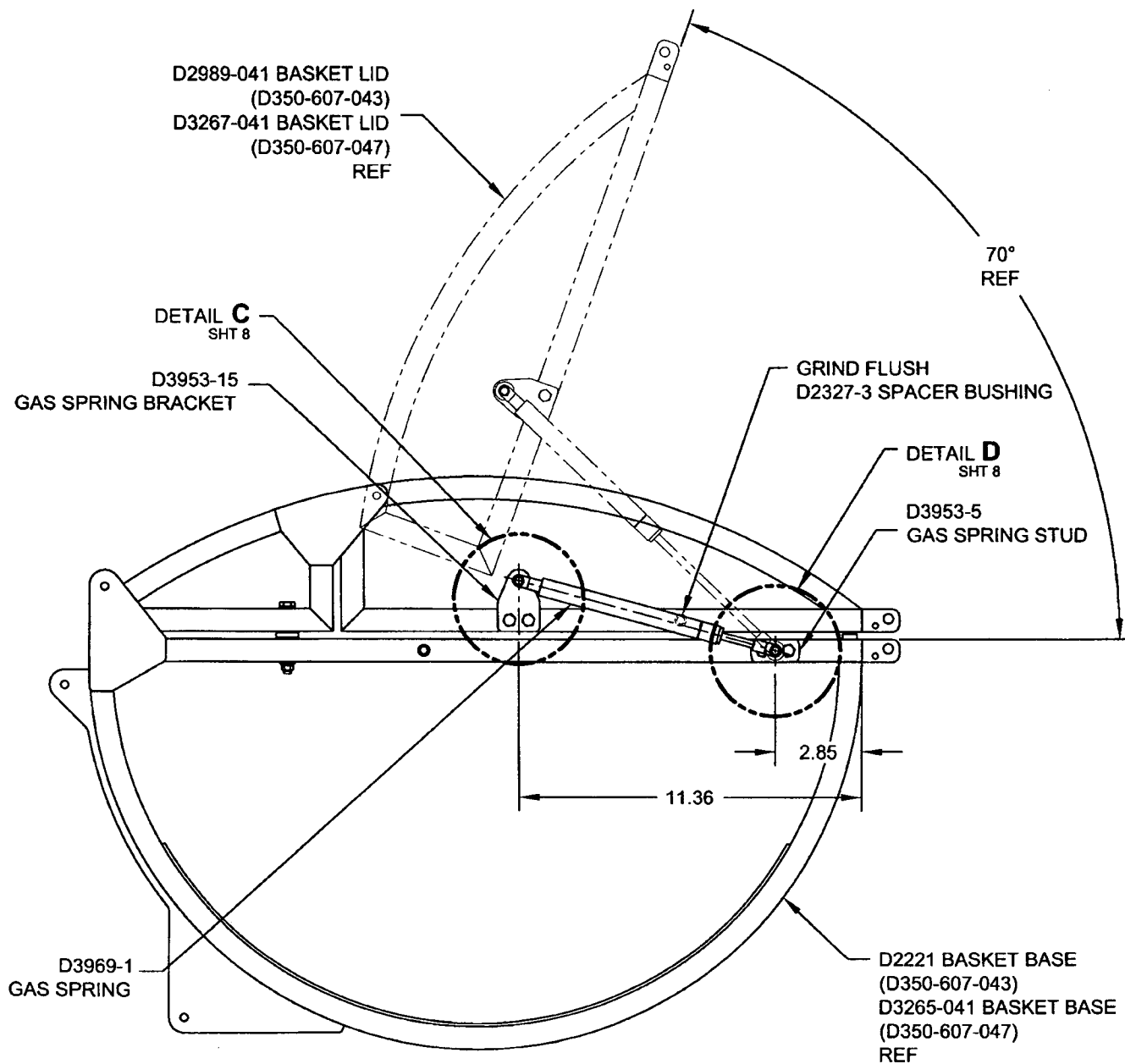
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**FIGURE 2**  
**D350-607-143 AUTOMATIC LID OPENER INSTALLATION**  
 (1 END ONLY)

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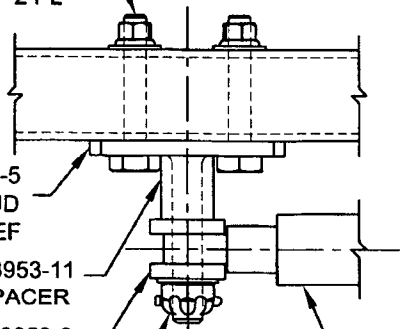
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AN3C11A BOLT  
NAS1149C0332R WASHER  
MS21043-3 NUT  
2 PL

D3953-5  
GAS SPRING STUD  
REF  
D3953-11  
GAS SPRING SPACER  
D3953-9  
GAS SPRING WASHER  
AN310-4 CASTELLATED NUT  
MS24665-212 COTTER PIN  
NAS1149C0432R WASHER

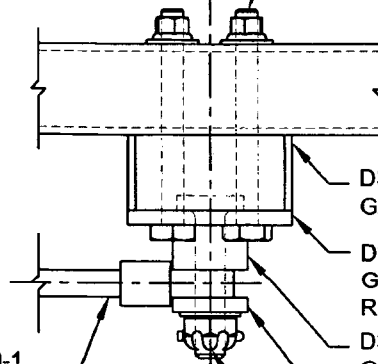


**VIEW F-F**

AN3C16A BOLT  
NAS1149C0332R WASHER  
MS21043-3 NUT  
2 PL

D3969-1  
GAS SPRING  
REF

D3953-13  
GAS SPRING SPACER  
D3953-1  
GAS SPRING BRACKET  
REF  
D3953-7  
GAS SPRING SPACER  
D3953-9  
GAS SPRING WASHER  
D3953-3 GAS SPRING STUD  
AN310-4 CASTELLATED NUT  
MS24665-212 COTTER PIN  
NAS1149C0432R WASHER

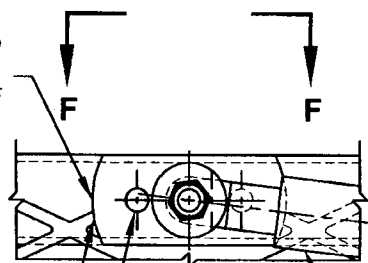


**VIEW E-E**

D3953-5  
GAS SPRING STUD  
REF

TRIM MESH LOCALLY  
AS REQUIRED

TRANSFER MARK AND  
DRILL Ø0.194 THRU  
2 PL



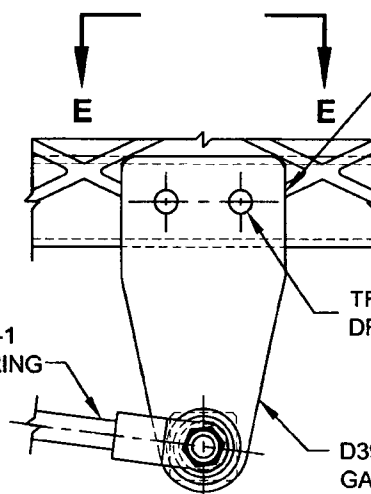
**DETAIL B**

D3969-1  
GAS SPRING  
REF

TRIM MESH LOCALLY  
AS REQUIRED

TRANSFER MARK AND  
DRILL Ø0.194 THRU

D3953-1  
GAS SPRING BRACKET  
REF






**DETAIL A**

CANADA  
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AN3C15A BOLT  
NAS1149C0332R WASHER  
MS21043-3 NUT  
2 PL

D3953-17  
GAS SPRING SPACER

D3953-15  
GAS SPRING BRACKET  
REF

D3953-7  
GAS SPRING SPACER

D3953-9  
GAS SPRING WASHER

D3953-3 GAS SPRING STUD  
AN310-4 CASTELLATED NUT  
MS24665-212 COTTER PIN  
NAS1149C0432R WASHER

**VIEW G-G**

AN3C11A BOLT  
NAS1149C0332R WASHER  
MS21043-3 NUT  
2 PL

D3953-5  
GAS SPRING STUD  
REF

D3953-11  
GAS SPRING SPACER

D3953-9  
GAS SPRING WASHER

AN310-4 CASTELLATED NUT  
MS24665-212 COTTER PIN  
NAS1149C0432R WASHER

D3969-1  
GAS SPRING  
REF

**VIEW H-H**

G G

D3953-15  
GAS SPRING BRACKET  
REF

TRANSFER MARK AND  
DRILL Ø0.194 THRU

TRIM MESH LOCALLY  
AS REQUIRED

D3969-1  
GAS SPRING  
REF

**DETAIL C**

H H

D3953-5  
GAS SPRING STUD  
REF

TRIM MESH LOCALLY  
AS REQUIRED

TRANSFER MARK AND  
DRILL Ø0.194 THRU

**DETAIL D**

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

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